

21. An optical-mechanical lens assembly comprising:

A housing, said housing having a spherically shaped bearing surface at a first end;

means, positioned within said housing for carrying a lens, said lens carrying means having a spherically shaped bearing surface disposed adjacent to and engaging said spherically shaped bearing surface at a first end of said housing;

means, attached to said lens and extending out of said housing, for passing light;

means, positioned approximately ninety degrees apart on a side of said housing, for adjusting said lens about a point on an optical filter located adjacent to said first end of said housing; and

a spring housing, extending through a side of said assembly housing near a second end, said spring housing comprises a spring connected to said lens carrying means and acting along an axis that bifurcates the axes of said lens adjusting means.

22. The optical-mechanical lens assembly as recited in Claim 21 wherein said assembly comprises a first vacuum port at said first end of said assembly adjacent to said optical filter and a second vacuum port on said side of said assembly.

23. The optical-mechanical lens assembly as recited in Claim 21 wherein said lens adjusting means comprises a first adjusting mechanism and a second adjusting mechanism, each positioned approximately said ninety degrees apart.

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24. The optical-mechanical lens assembly as recited in Claim 23 wherein each of said first adjusting mechanism and said second adjusting mechanism comprises a driver for contacting a flat portion of said lens carrying means.

25. The optical-mechanical lens assembly as recited in Claim 21 wherein said lens carrying means comprises a first portion for supporting said lens and a second portion extending from said first portion for contacting said spring and drivers of said lens adjusting means.

26. The optical mechanical lens assembly as recited in Claim 25 wherein said second portion of said lens carrying means comprises flat surfaces for contact with said drivers of said lens adjusting means.

27. An optical-mechanical lens assembly comprising:
a housing, said housing having a spherically shaped bearing surface at a first end;

a lens carrier having a collimating lens, said lens carrier being positioned within said housing, one end of said lens carrier comprises a spherically shaped bearing surface for engaging with said spherically shaped bearing surface at a first end of said housing;

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and
an optical fiber connected to said lens extends out of said housing for passing light;

a first adjustment mechanism and a second adjustment mechanism positioned approximately ninety degrees apart on a side of said housing for adjusting said lens about a point on an optical filter located adjacent to said first end of said housing, said lens carrier having flat surfaces for contacting with drivers of said first adjustment mechanism and said second adjustment mechanism;

a spring housing extending from a side of said assembly housing near a second end, said spring housing comprises a spring connected to said lens carrier and acting along an axis that bifurcates the axis of the lens carrier; and

a first vacuum port disposed at a first end of said housing adjacent to said optical filter and a second vacuum port disposed on said side of said housing.

REMARKS

Applicants' request that the new Claims 21-27 be examined along with original Claims 1-20 of the above-identified application.